

**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PW 10-17

SUBMITTED TO: Chairman Siersema and Members of the Commission

SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works *TH*

DATE: May 19, 2010

SUBJECT: 30-inch Yorktown Transmission Main Corrosion Rehabilitation and Appurtenance Retrofit, CC1285

Statement of Issue: Plans and specifications for the 30-inch Yorktown Transmission Main Corrosion Rehabilitation and Appurtenance Retrofit project are in final preparation. Staff is seeking support for the project and the initiation of the competitive bid process.

Funding Source: Funds will be appropriated this fiscal year or budgeted in the Capital Improvement Program next fiscal year. Funds in the amount of \$1,800,000 are available in the Water Master Plan Fund, and \$2,100,000 in the Water Fund respectively, for a total estimate of \$3,900,000.

Impact on Future Maintenance Costs: The completion of this rehabilitation project will significantly extend the functional life cycle of the transmission main. It will also increase reliability, reduce the probability of a future pipeline rupture, and reduce the City's exposure to liability from a pipeline failure.

Recommended Action: Motion to recommend to the City Council, the 30-inch Yorktown Transmission Main Corrosion Rehabilitation and Appurtenance Retrofit, CC1285.

Alternative Action(s): Deny approval and recommend an alternative action.

Analysis: Chapter 7, Project No. 10 of the approved 2005 Water Master Plan and Financing Plan for the City of Huntington Beach, dated March 2006, recommends corrosion control for various pipelines, including the 30-inch transmission main. This project will rehabilitate approximately 18,200 lineal feet of 30-inch steel transmission main constructed in 1964. The project is located along Huntington Street, Yorktown Avenue, Brookhurst Street and Adams Avenue.

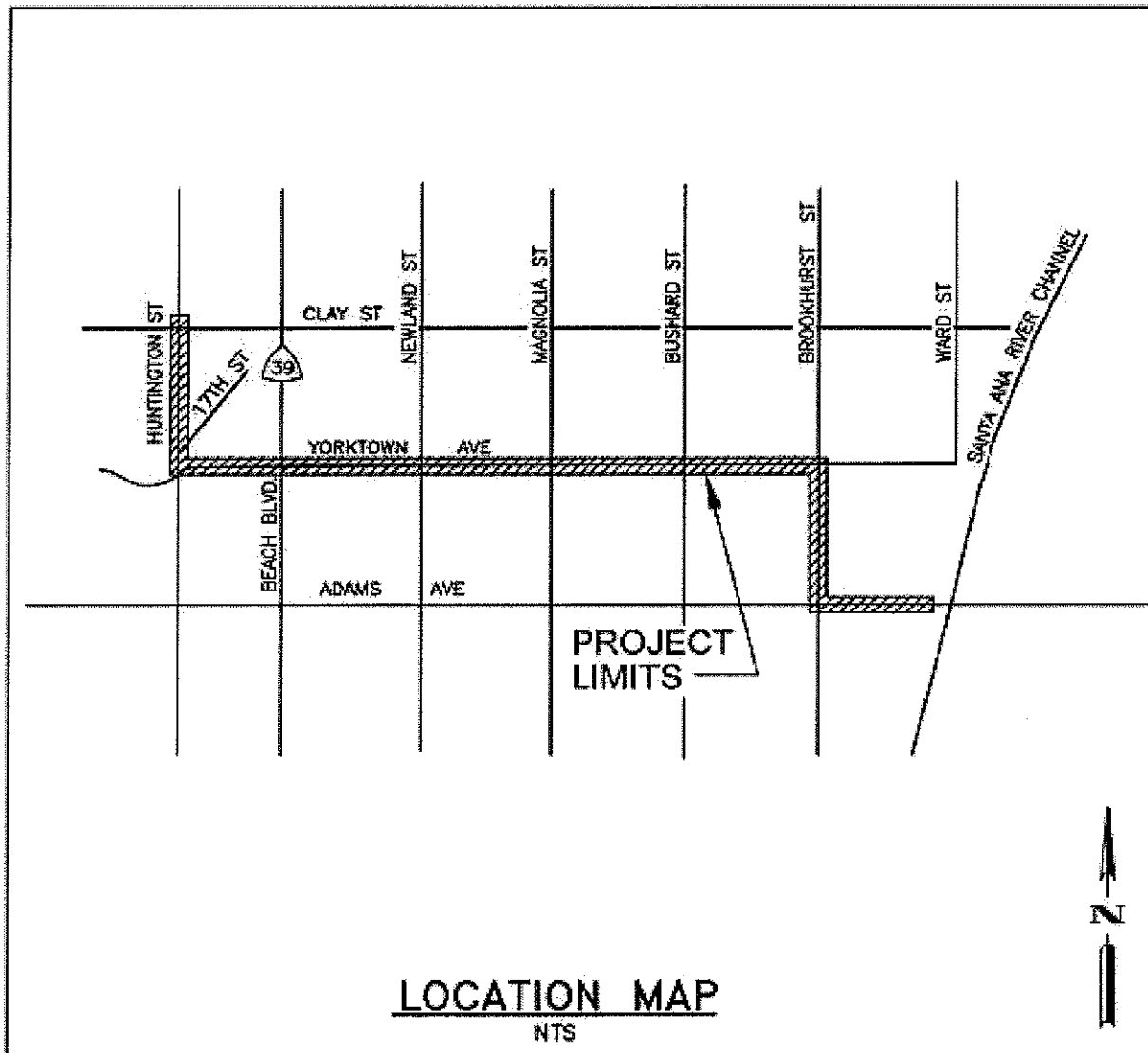
The project will rehabilitate the 30-inch pipeline by (1) constructing a cathodic protection system funded from the Water Master Plan Fund, and (2) a routine replacement/rehabilitation of existing valves and other aging appurtenances funded from the Water Fund.

The replacement of the appurtenances will insure that the pipeline has functional blow offs, valves and air vacuum valves. The estimated functional life of these appurtenances is approximately 50 years. The application of cathodic protection systems will extend the functional life cycle of the pipeline by preventing external corrosion to the steel pipeline.

Attachments:

1. Project Location Map

ATTACHMENT #1



CITY OF HUNTINGTON BEACH
DEPARTMENT OF PUBLIC WORKS

PROJECT LOCATION

**30" YORKTOWN MAIN CORROSION
REHABILITATION AND
APPURTENANCE RETROFIT**

CC 1285